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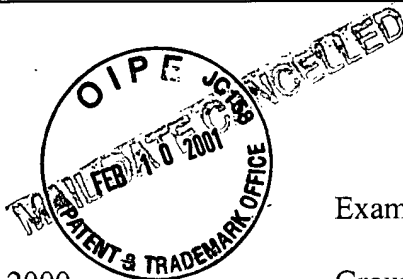
PATENT
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Jonathan K. Tash

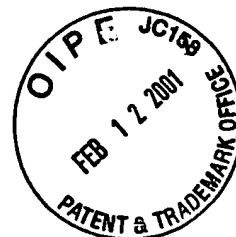
Serial No.: 09/709,004

Filing Date: November 8, 2000



Examiner: Unknown

Group Art Unit 2744



For: **METHOD AND APPARATUS FOR SCHEDULING BROADCAST INFORMATION**

Docket: 1109.1102101

Assistant Commissioner
for Patents
Washington, D.C. 20231

I HEREBY CERTIFY THAT THIS CORRESPONDENCE IS
BEING DEPOSITED WITH THE UNITED STATES POSTAL
SERVICE AS FIRST CLASS MAIL IN AN ENVELOPE
ADDRESSED TO: ASSISTANT COMMISSIONER FOR
PATENTS, WASHINGTON D.C. 20231.

8th DAY OF February, 2001.

Brian N. Tufte

Dear Sirs:

INFORMATION DISCLOSURE STATEMENT

Pursuant to the obligations of candor and good faith imposed by 37 C.F.R. 1.56, the documents listed on the attached PTO-1449 are hereby disclosed.

No representation is intended to be made hereby that any of the cited references establishes, by itself or in combination with other information, a prima facie case of unpatentability of any claim of the present case.

Respectfully submitted,

Jonathan K. Tash

By his attorney,

Dated: February 8th, 2001

Brian N. Tufte, Reg. No. 38,638
CROMPTON, SEAGER & TUFTE, LLC
331 Second Avenue South, Suite 895
Minneapolis, MN 55401-2246
Telephone: (612) 677-9050
Facsimile: (612) 359-9349

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FORM PTO-1449		Atty. Docket No.: 1109.1102101	Serial No.: 09/709,004
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT		Applicant: Jonathan K. Tash	
		Filing Date	Group Art:
		November 8, 2000	

U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
AA	5,115,436	05/19/1992	McAuley	371	37.1	
AB	5,659,790	08/19/1997	Kim et al.	395	806	
AC	5,715,262	02/03/1998	Gupta	371	37.1	
AD	5,778,187	07/07/1998	Monteiro et al.	395	200	
AE	5,793,747	08/11/1998	Kline	370	230	
AF	5,812,545	09/22/1998	Liebowitz et al.	370	337	
AG	5,864,557	01/26/1999	Lyons	370	444	
AH	5,870,412	02/09/1999	Schuster et al.	371	37.01	
AI	5,926,459	07/20/1999	Lyles et al.	370	230	
AJ	5,930,248	07/27/1999	Langlet et al.	370	347	
AK	5,974,583	10/26/1999	Joo	714	784	
AL	5,983,005	11/09/1999	Monteiro et al.	395	200.61	
AM	6,000,053	12/07/1999	Levine et al.	714	766	
AN	6,002,687	12/14/1999	Magee et al.	370	394	
AO	6,031,875	02/29/2000	Im	375	262	
AP	6,041,431	03/21/2000	Goldstein	714	784	
AQ	6,047,395	04/04/2000	Zook	714	756	

FOREIGN PATENT DOCUMENTS

Document No.	Date	Country	Class	Sub Class	Translation Yes No

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AR	Brad Cain et al., "Generic Multicast Transport Services: Router Support for Multicast Applications", CMPSCI Technical Report TR 99-74, October 1999, 15 pages.
AS	Dan Rubenstein et al., "A Centralized, Tree-Based Approach to Network Repair Service for Multicast Streaming Media", AT&T Technical Memorandum TM HA1720000-991129-03,

	November 1999, 20 pages.
AT	Dan Rubenstein et al., "Improving Reliable Multicast Using Active Parity Encoding Services (APES)", Technical Report 98-79, University of Massachusetts at Amherst, Department of Computer Science, July 1998, 22 pages.
AU	Dan Rubenstein et al., "Real-Time Reliable Multicast Using Proactive Forward Error Correction", Computer Science Department, University of Massachusetts at Amherst, dated prior to November 8, 2000, 15 pages.
AV	Dan Rubenstein et al., "Real-Time Reliable Multicast Using Proactive Forward Error Correction (FEC)", University of Massachusetts at Amherst, dated prior to November 8, 2000, 14 slides.
AW	Dan Rubenstein et al., "The Impact of Multicast Layering on Network Fairness", Technical Report 99-08, Department of Computer Science, February 1999, 27 pages.
AX	Dan Rubenstein et al., "Improving Reliable Multicast Using Active Parity Encoding Services (APES)", University of Massachusetts at Amherst, dated prior to November 8, 2000, 14 slides.
AY	Dan Rubenstein, "Increasing the Functionality and Availability of Reed-Solomon FEC Codes: a Performance Study", Technical Report 98-31, Department of Computer Science, August 1998, 18 pages.
AZ	Johannes Blomer et al., "An XOR-Based Erasure-Resilient Coding Scheme", dated prior to November 8, 2000, 19 pages.
BA	John W. Byers et al., "A Digital Fountain Approach to Reliable Distribution of Bulk Data", TR-98-013, dated prior to November 8, 2000, 23 pages.
BB	Jorg Nonnenmacher et al., "Parity-Based Loss Recovery for Reliable Multicast Transmission", Technical Report 97-17, Department of Computer Science, University of Massachusetts, March 1997, 21 pages.
BC	Lixin Gao et al., "Supplying Instantaneous Video-On-Demand Services Using Controlled Multicast", dated prior to November 8, 2000, 21 pages.
BD	Luigi Rizzo et al., "A Reliable Multicast Data Distribution Protocol Based on Software FEC Techniques", dated prior to November 8, 2000, 10 pages.
BE	Luigi Rizzo, "Effective Erasure Codes for Reliable Computer Communication Protocols", dated prior to November 8, 2000, 13 pages.
BF	Luigi Rizzo, "On the feasibility of Software FEC", available at http://www.iet.unipi.it/~luigi/softfec.ps , dated prior to November 8, 2000, 16 pages.
BG	Maya Yajnik et al., "Measurement and Modelling of the Temporal Dependence in Packet Loss", UMASS COMPSCI Technical Report #98-78, dated prior to November 8, 2000, 22 pages.
BH	Michael G. Luby et al., "Analysis of Random Processes Via An-Or Tree Evaluation", TR-97-042 dated prior to November 8, 2000, 16 pages.
BI	Michael Luby et al., "Practical Loss-Resilient Codes", dated prior to November 8, 2000, 20 pages.
BJ	Sneha Kumar Kasera et al., "A Comparison of Server-Based and Receiver-Based Local Recovery Approaches for Scalable Reliable Multicast", CMPSCI Technical Report TR 97-69, December 1997.
BK	Subhabrata Sen et al., "Frame-based Periodic Broadcast and Fundamental Resource Tradeoffs", Technical Report 99-78 Department of Computer Science, dated prior to November 8, 2000, 23 pages.
BL	Subhabrata Sen et al., "Optimal Patching Schemes for Efficient Multimedia Streaming", UMASS CMPSCI Technical Report 99-22, dated prior to November 8, 2000, 16 pages.

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



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PATENT
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Jonathan K. Tash

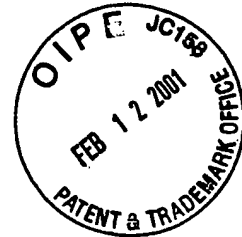
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For: METHOD AND APPARATUS FOR SCHEDULING BROADCAST INFORMATION

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TRANSMITTAL SHEET

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

CERTIFICATE UNDER 37 C.F.R. 1.8: I hereby certify that this correspondence is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to the: Assistant Commissioner for Patents, Washington, D.C. 20231, on this 8th day of February, 2001.

By

Brian N. Tufte

We are transmitting herewith the attached:

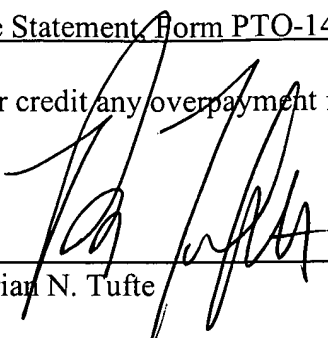
☐ Amendment

☐ No additional fee required

☐ The fee has been calculated as shown:

CLAIMS AS AMENDED							
	(3)	(4)	(5)	SMALL ENTITY		OTHER	
	REMAINING CLAIMS	HIGHEST PAID	EXTRA	RATE	ADD'L FEE	RATE	ADD'L FEE
TOTAL CLAIMS	-	=		x9=	\$	X18=	\$
INDEPENDENT CLAIMS	-	=		X40=	\$	X80=	\$
() FIRST MULTIPLE DEPENDENT CLAIM				+130=	\$	+260=	
TOTAL				\$		\$	

- [] A check in the amount of \$ _____ is enclosed.
- [] Small entity status of this application under 37 C.F.R. 1.9 and 1.27 has been established by verified statement previously submitted.
- [X] Other: Information Disclosure Statement, form PTO-1449 and cited references.
- [X] Please charge any deficiencies or credit any overpayment in the enclosed fees to Deposit Account No. 50-0413.

By:  _____
Brian N. Tufte
Reg. No. 38,638

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